PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

MARK T. STARR UNISYS WAY, MS/E8-114 BLUE BELL, PA 19424-001

From the

PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Applicant's or agent's file reference

USYS-0160/TN333C /0/888000

International application No. International filing date (day/month/year)

PCT/US2004/33527 / 07 October 2004 (07.10.2004)

UNISYS CORPORATION

Page of Mailing (day/month/year)

IMPORTANT NOTIFICATION

Priority date (day/month/year)

98 October 2003 (08.10.2003)

Applicant

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
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Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201 Authorized officer

CHARLES RONES

Telephone No. (571) 272-3609

Form PCT/IPEA/416 (July 1992)

PATENT COOPERATION TREATY



From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: MARK T. STARR UNISYS WAY, MS/E8-114 BLUE BELL, PA 19424-001

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/I	
USYS-0160/TN333C	International filing date (day/mor		
International application No.			
PCT/US2004/33527 International Patent Classification (IPC)	07 October 2004 (07.10.2004)	08 October 2003 (08.10.2003)	<u>'</u>
	or national classification and if C		
IPC: G06F 17/30(2006.01) USPC: 707/3,102,104.1			
Applicant		•	
UNISYS CORPORATION .			====
This international prelimir Examining Authority and	nary examination report has been is transmitted to the applicant a	n prepared by this International Preliminary ecording to Article 36.	,
2. This REPORT consists of	a total of Sheets, including	this cover sheet.	
which have been ame before this Authority	nded and are the basis for this r (see Rule 70.16 and Section 60	sheets of the description, claims and/or drave eport and/or sheets containing rectifications of the Administrative Instructions under the	made
These annexes consist of a	a total of <u>S</u> sheets.		
3. This report contains indica	ations relating to the following	items:	
I Basis of the rep	oort		
II Priority		•	
III Non-establishn	nent of report with regard to no	velty, inventive step and industrial applicabi	ility
IV Lack of unity of	of invention	•	
V Reasoned state applicability; c	ment under Article 35(2) with a itations and explanations suppo	egard to novelty, inventive step or industria	ıl
VI Certain docum			,
VII Certain defects	in the international application	· · · · · · · · · · · · · · · · · · ·	
VIII Certain observe	ations on the international appl	cation	į
	·		
Date of submission of the demand	Dat	e of completion of this report	
06 May 2005 (06.05.2005)	103	March 2006 (10.03.2006)	
Name and mailing address of the IPEA/	US Aut	horized officer Kusa Via	. •
Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents	l cı	HARLES RONES	
P.O. Box 1450 Alexandria, Virginia 22313-1450	Tel	ephone No. (571) 272-3609	•
Facsimile No. (571) 273-3201			

Form PCT/IPEA/409 (cover sheet)(July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	
PCT/US2004/33527	

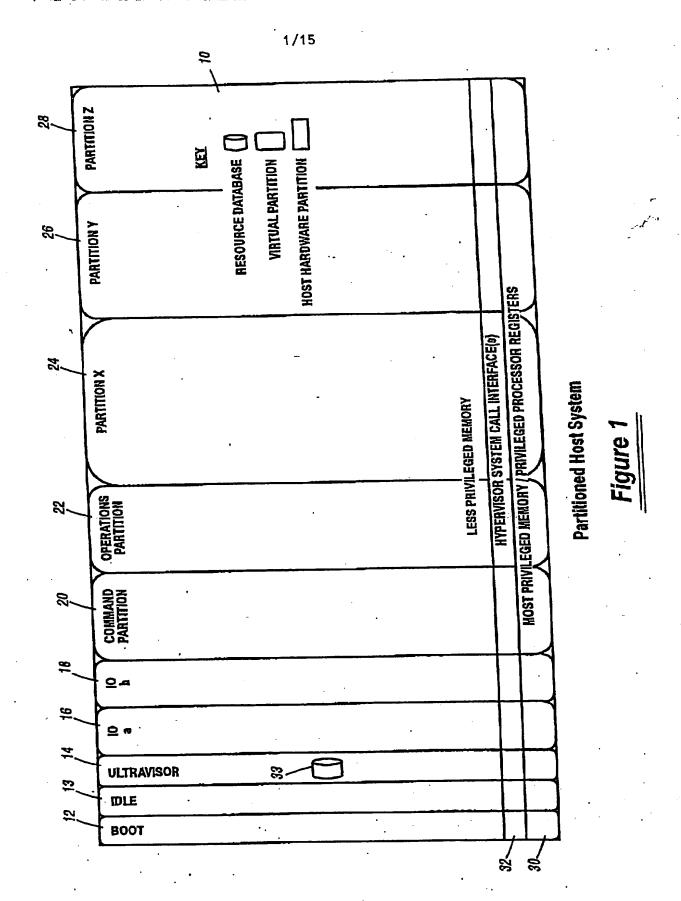
I.	Basis of the report	
1.	With regard to the elements of the international application:*	
	the international application as originally filed.	,
	the description:	
	pages 1-66 as originally filed pages NONE , filed with the demand	
	pages NONE , filed with the letter of	
	the claims:	
	pages 67-68, as originally filed	
	pages NONE, as amended (together with any statement) under Article 19	
	pages NONE, filed with the demand pages NONE, filed with the letter of	
	the drawings:	_
	pages 1-15 , as originally filed	
	pages 1-15, filed with the demand	
	pages 1-15 , filed with the letter of 06 May 2005 (06.05.2005)	·
	the sequence listing part of the description:	
	pages NONE, as originally filed pages NONE, filed with the demand	
	pages NONE , filed with the letter of	
2.	With regard to the language, all the elements marked above were available or furnished to	
	language in which the international application was filed, unless otherwise indicated under These elements were available or furnished to this Authority in the following language	
	the language of a translation furnished for the purposes of international search (under	
	the language of publication of the international application (under Rule 48.3(b)).	,
	the language of the translation furnished for the purposes of international preliminary 55.2 and/or 55.3).	examination(under Rules
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international	application, the
	international preliminary examination was carried out on the basis of the sequence listing:	
	contained in the international application in printed form.	
	filed together with the international application in computer readable form.	•
	furnished subsequently to this Authority in written form.	
	furnished subsequently to this Authority in computer readable form.	
	The statement that the subsequently furnished written sequence listing does not go b international application as filed has been furnished.	•
	The statement that the information recorded in computer readable form is identical to has been furnished.	o the written sequence listing
4.	The amendments have resulted in the cancellation of:	
	the description, pages NONE	·
	the claims, Nos. NONE	
	the drawings, sheets/fig NONE	•
5.		y have been considered to go
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation un	der Article 14 are referred to in
th	is report as "originally filed" and are not annexed to this report since they do not contain amendment. * Any replacement sheet containing such amendments must be referred to under item 1 and annexed t	nts (Rules 70.16 and 70.17).

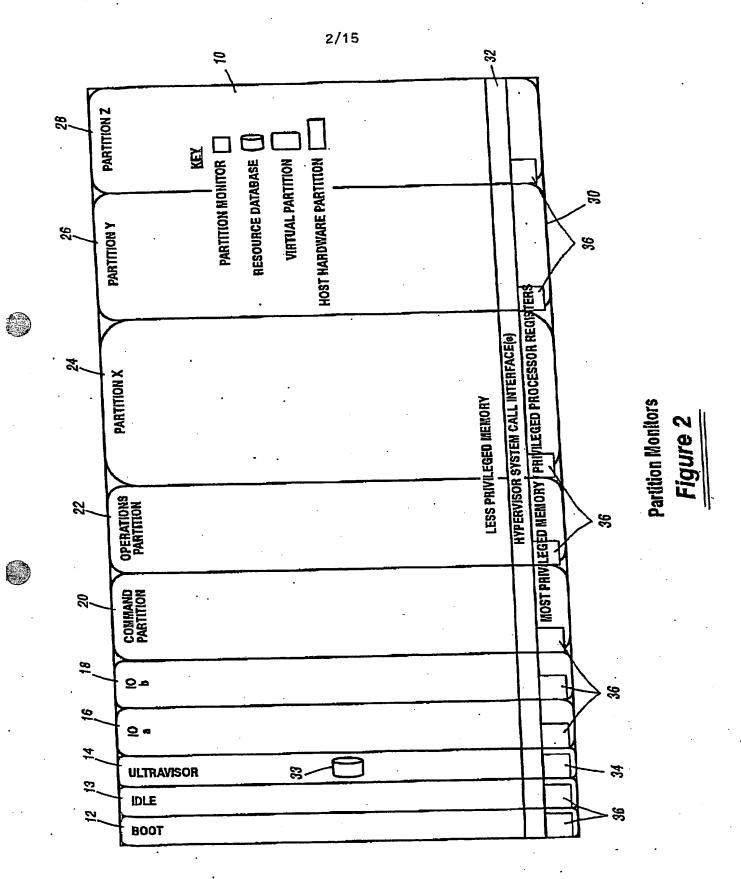
INTERNATIONAL PRELIMINARY EXAMINATION REPORT

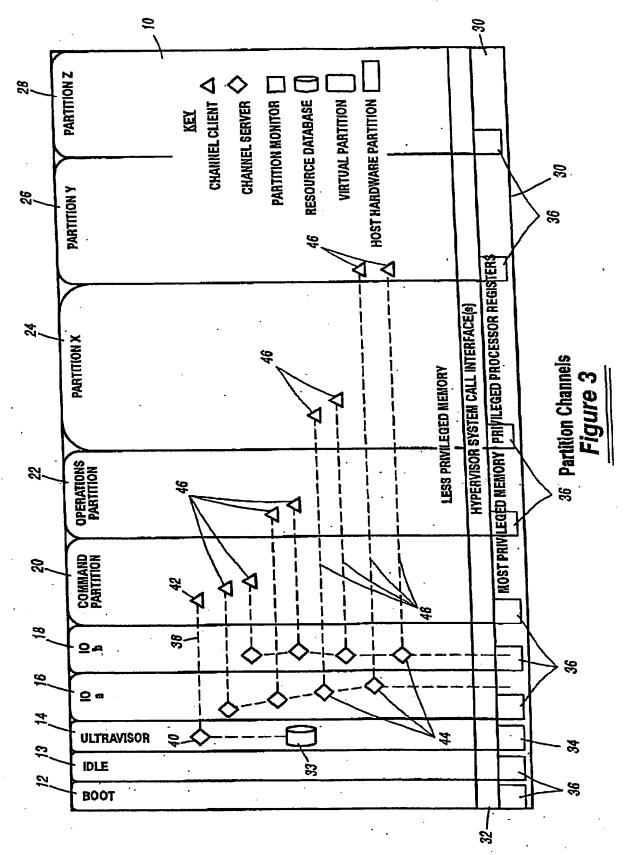
Form PCT/IPEA/409 (Box V) (July 1998)

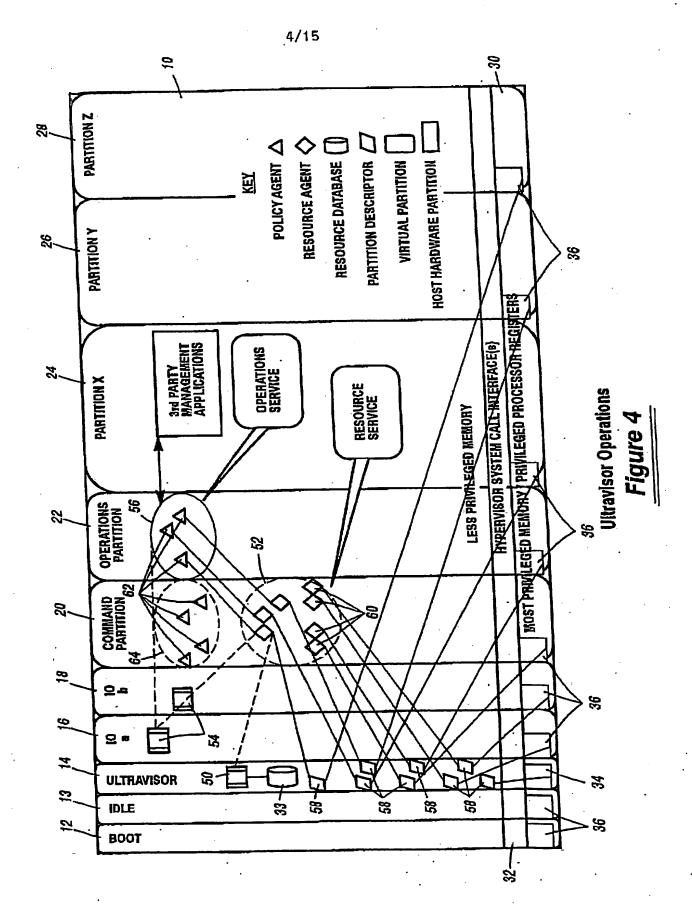
International application No.
/ 544/33527

Claims NONE NO	STATEMENT		
Claims 1-6 YE Claims NONE NO Industrial Applicability (IA) Claims 1-6 YE Claims NONE NO Industrial Applicability (IA) Claims 1-6 YE Claims NONE NONE NO CITATIONS AND EXPLANATIONS Is 1-6 TO THE TOTAL OF THE TOT	Novelty AD	Claims 1.6	VE
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STATIONS AND EXPLANATIONS In 1-6 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest memory allocation map is organized according to a tiered page size model including a hierarchy of scales using 2 st as a scaling factor whereby an expansive page at each tiered page size level may allocate 2 st memory blocks at a size of the next lower tiered page size level. NEW CITATIONS	Industrial Applicability (IA)		
ns 1-6 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest memory allocation map is organized according to a tiered page size model including a hierarchy of scales using 2 st as a scaling factor whereby an compared according to a tiered page size level may allocate 2 st memory blocks at a size of the next lower tiered page size level. NEW CITATIONS ————————————————————————————————————		Claims NONE	NO
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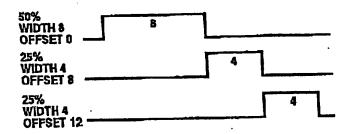
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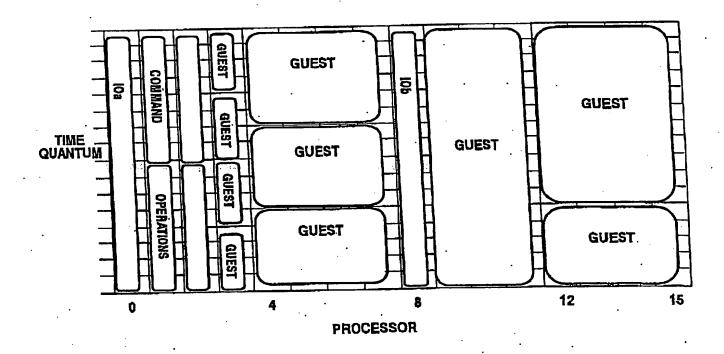
5/15

OVERLAPPED PROCESSOR THROTTLING - DEFAULT 4 BIT DUTY WIDTH (1/16 = 6.25%)



Processor Sharing

Figure 5



Processor Schedule

Figure 6

PCT/USD4+ BBS87 LUSDS8005

6/15

					TOPHENOT	
n 101 c)	Si Prefix	SI Name	Page Table	Pageantry	IA3ZIENIOK I	
7				nVC	PT/PTE	
•	¥	얼	PKM	TAE		
-	:		DMM	PME	PD/PDE	
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2	,			DIE	PML4	
-	}	tera	PIS	4		
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SI Prefixes for Page Table Hierarchy

AMENDED SHEET

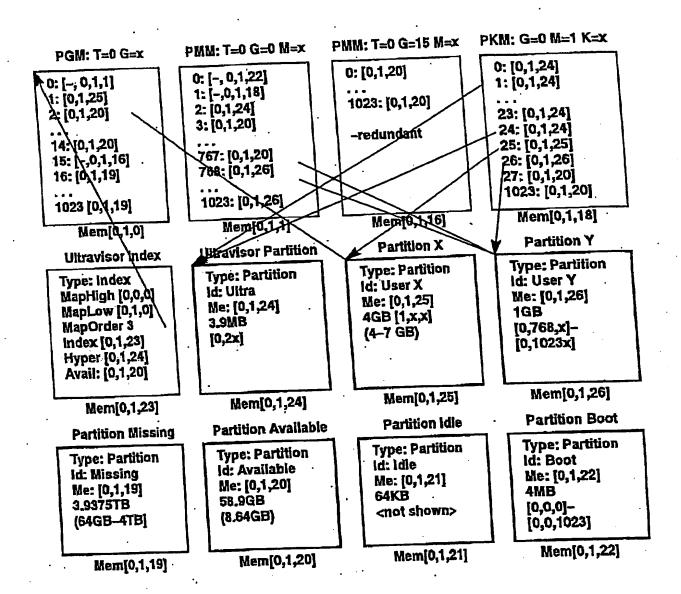
PCTUSO4/BBSZ.OGOSROS

7/15

Function GetMemoryOwner [T: 0..1023, G:0..1023, M:0..1023, K:0..1023] of Int32

Memory index Ref 1 GB MB KB

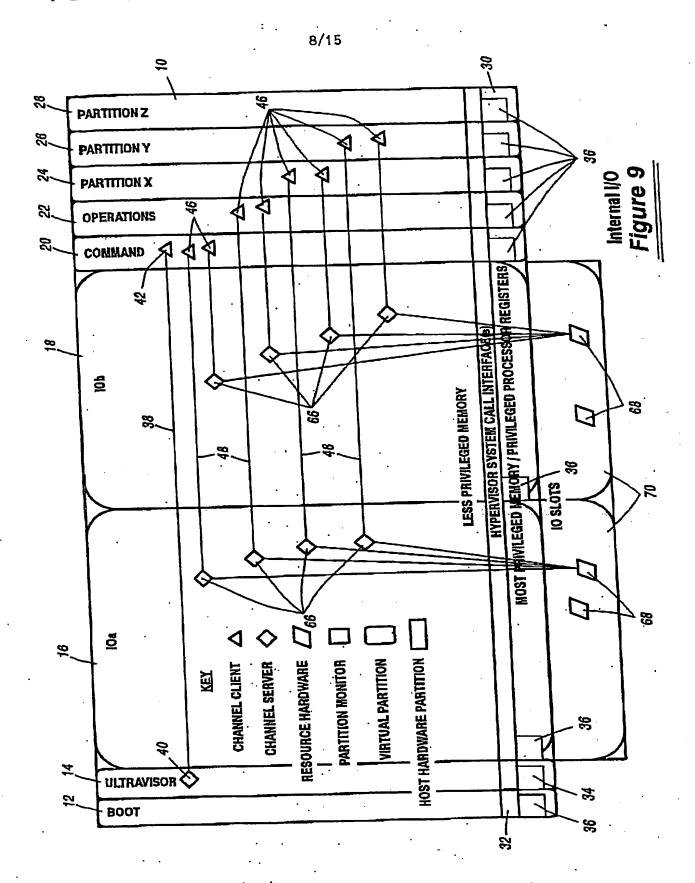
Partition number (32 bits) OS Node (GB) MB KB



Where Mem[G,M,K] := ((G * 2**10+M) * 2 **10 + K) * 2**10*2**2

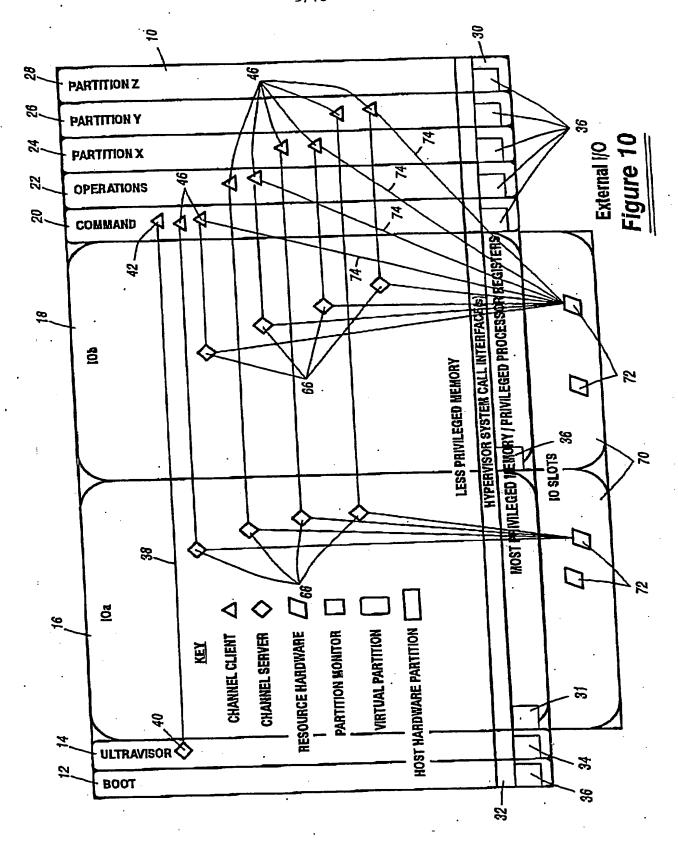
Partition Memory Map

Figure 8

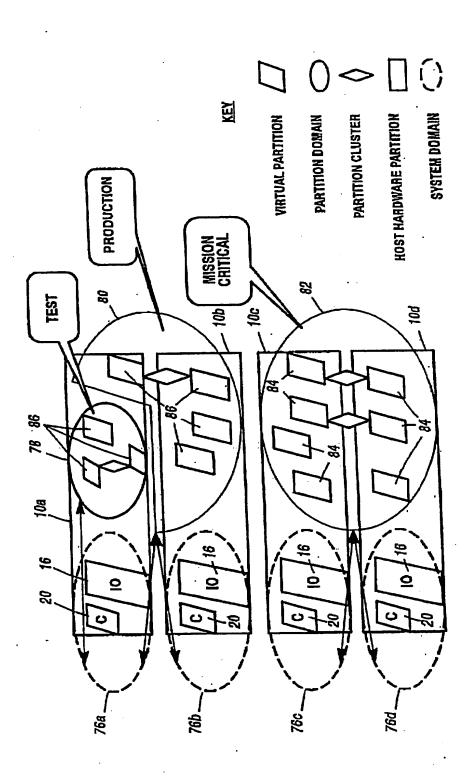


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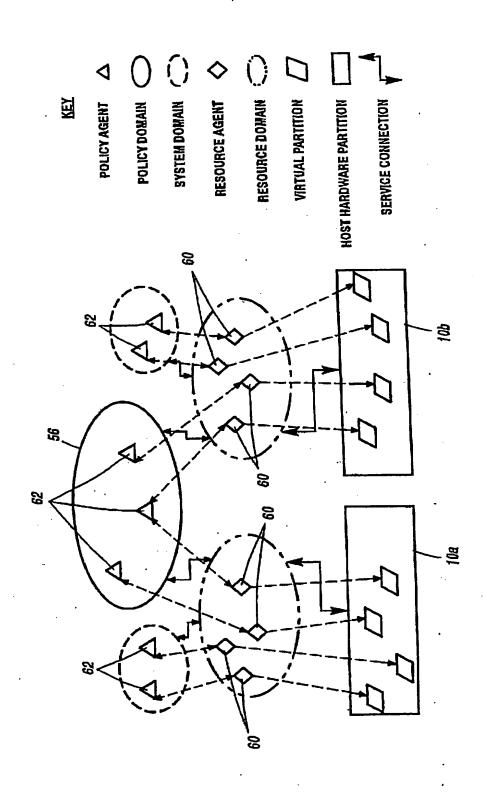


Ultravisor Domalns Figure 11

IPEA/US

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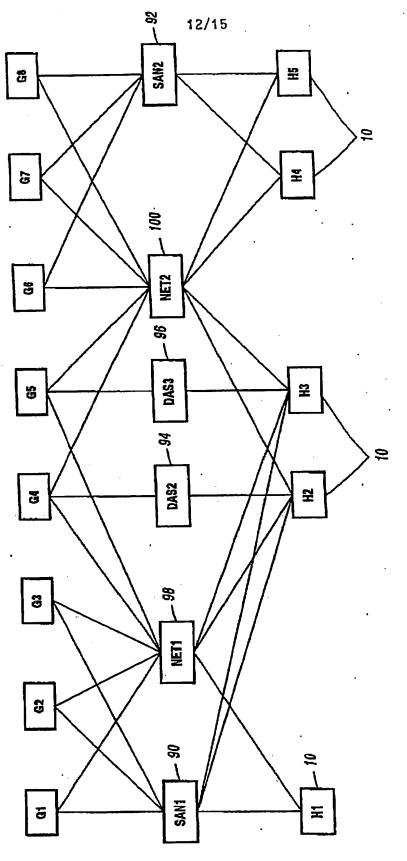
11/15



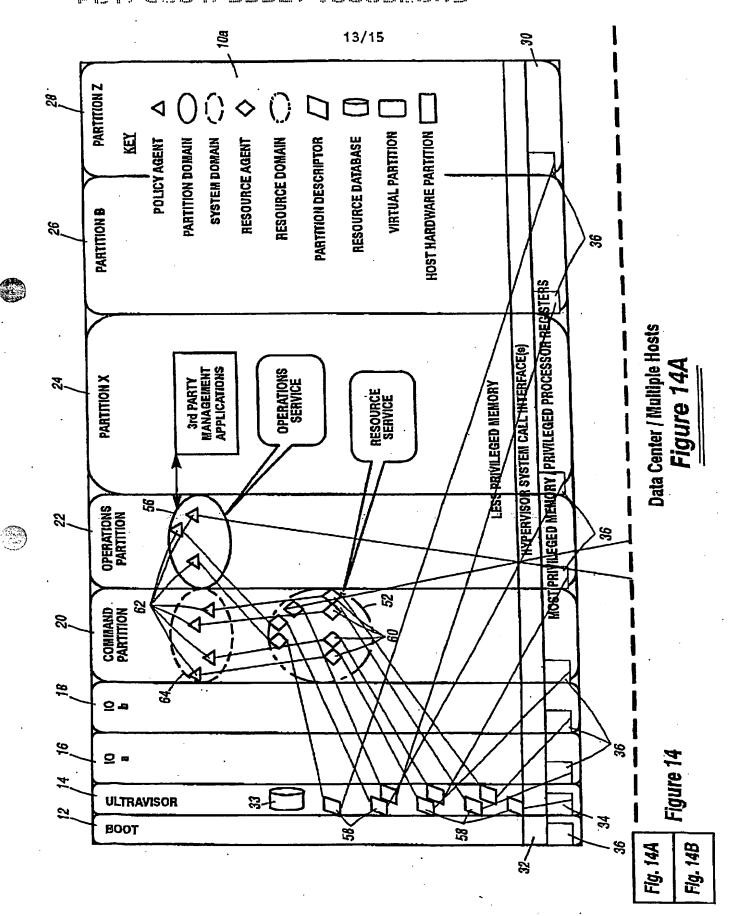
Ultravisor Partition Agents Figure 12

IPEA/US

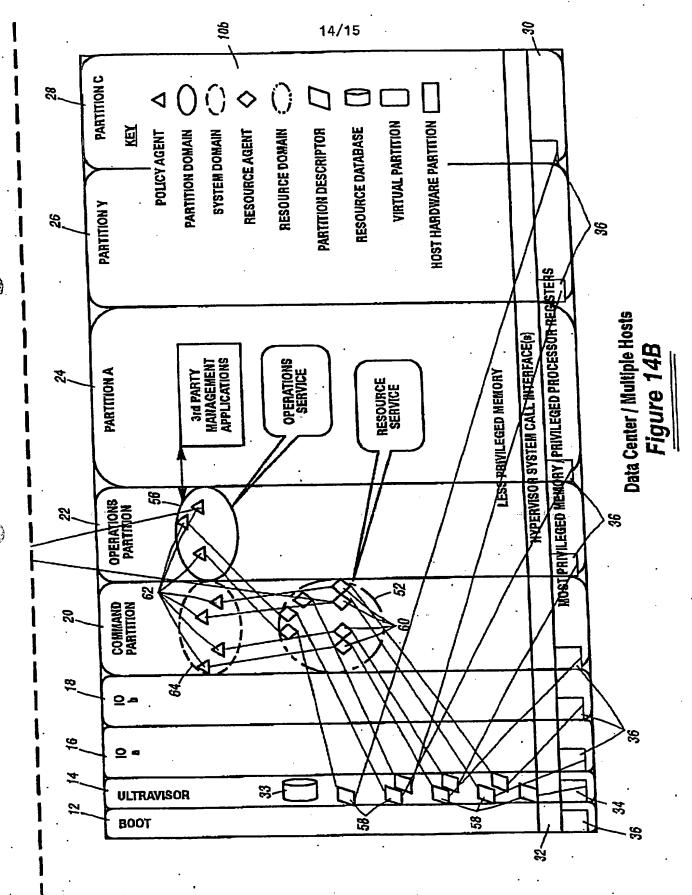
prr/usch/BBB2/ oscaseos



Virtual Data Center Zones Figure 13

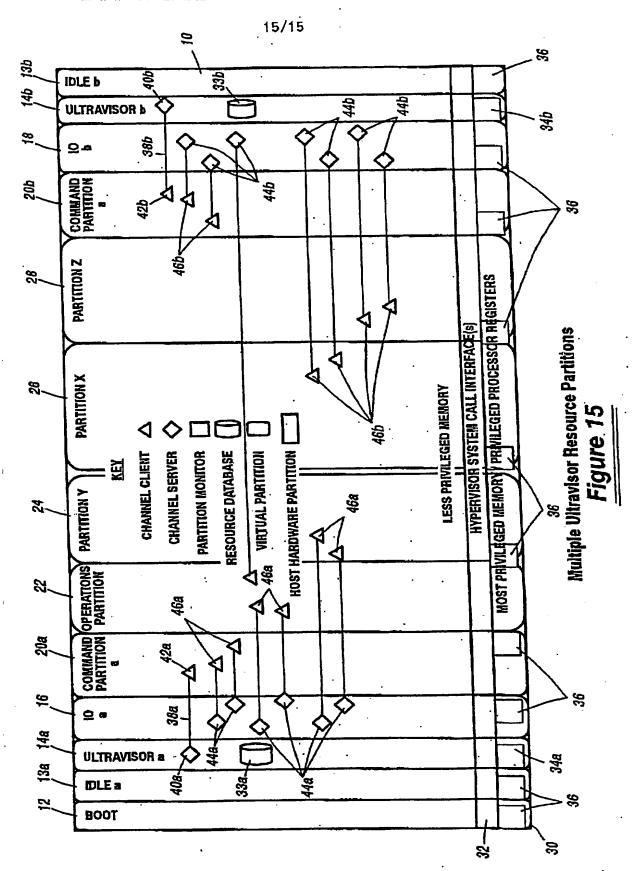


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